

Practical Test Reference Guide [Report]

Used Technologies for Image Carousel Component by DeepMed

- Node.js 18.16.0
- Express js
- React 5.0.1
- MongoDB Atlas Cloud Database
- Visual Studio Code

Libraries and Dependencies

Mongoose for MongoDB : for connect MongoDB with Node.js

Used Connection Codes:

```
const mongoose = require('mongoose');

mongoose.connect('mongodb://127.0.0.1:3600/api/carousel);

const Slide = mongoose.model(Slide, { name: String });

const image1 = new Cat({ name: 'Mountain_Image' });

image1.save().then(() => console.log('Image Displayed'));
```

Dotenv for env : for load environmental variables for process

Installation

```
npm install dotenv --save
```

Axios: for handling transformations of requests and responses of data by HTTP requests

Installation:

```
$ npm install axios
```

Use:

```
import axios, {slides, AxiosError} from 'axios';  
  
export default Slides
```

Nodemon: for automatically restarting the node application when file changes

```
npm install -g nodemon
```

Steps:

1. Create node package using 'git init'
2. Installed express using 'npm install express'
3. Installed nodemon, axios as dependencies
4. Made express request in 'index.js' as server
5. Installed react using 'npx create-react-app carousel' in Carousel directory
6. Pass images for slides in 'data.js' for client side from backend using json.
7. Connect MongoDB with mongoose using connectivity driver URI.
8. Fetch Images slides data using 'import "data" from "data.js" ' in app.js
9. Created styles and transforms in 'index.css' in src file.

References:

1. [Learn React](#)

React useState Hook (w3schools.com)

React Props (w3schools.com)

React useReducer Hook (w3schools.com)

https://www.w3schools.com/react/react_router.asp

2. [How to Make a GET Request with axios](#)

<https://www.freecodecamp.org/news/how-to-use-axios-with-react/>

3. [Fetching data with React hooks and Axios](#)

<https://dev.to/darkmavis1980/fetching-data-with-react-hooks-and-axios-114h>

4. MongoDB

https://cloud.mongodb.com/v2/647c4c9a208c0b5f68c86a1d#/metrics/replicaSet/647c4d5f8810fd7b858c26f8/explorer/deepmed_carousel

5. MongoDB Cloud driver installation

<https://www.mongodb.com/docs/drivers/node/current/#introduction>

6. Make Reusable Components in React

<https://blog.bitsrc.io/reusable-components-in-react-a-practical-guide-ec15a81a4d71>

7. Make Fetch API

<https://www.c-sharpcorner.com/article/how-to-fetch-api-call-using-json-server-in-reactjs/>